明治二十一年二月刊行

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定價金拾六錢

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同 海軍屬 白井正信
同 海軍十等技手 永江董

(Signed) Director.

M. Nakagawa.

Observers.

N. Itō.

Assistants.

K. Kanō.

K. Ozawa.

O. Hibi.

M. Shirai.

T. Nagaye.

REMARKS.

Day.	
1	*f.p.*; S.W. w_2 8 a.m.—4 p.m.
2	*f.p.*; *d.* at 9 p.m.
3	*f.p.*
4	*f.p.*; S. w_2 3—10 p.m.
5	*f.p.*; B.C. at times after 3 p.m.; *f.p.* in night; S.W. w_3 7 a.m.—3 p.m.
6	*f.p.*
7	*f.p.*; B.C. at times 3—9 p.m.
8	*f.p.*
9	*f.p.*
10	*f.p.*; V. after 3 p. m.
11	H. at 2 a.m.; *f.p.* after 3 a.m.; E. at 9.09 a.m.
12	*f.p.*
13	*f.p.*
14	*f.p.*; E. at 5.50 p.m.
15	*f.p.*
16	C. after day break.
17	C.; D., with S. at times 4.50—9 a.m.; D. at times after 5 p.m.; *f.p.* after 8 p.m.
18	C.; M. in morning; D. after 10 p.m.
19	R.; C. after 8 a.m.
20	C.; S. at 11.15 a.m. & 6 p.m.; *f.p.* after 11 p.m.
21	*d.* after 9 a.m.; N. & N.W. w_2 in a.m.
22	*f.p.* after 2 a.m.
23	*f.p.*; B.C. 2—6 p.m.
24	*f.d.*; N.W. w_2 10 a.m.—6 p.m.
25	*f.p.*; N.W. w_2 11 a.m.—5 p.m.
26	B., with B.C. at times.
27	*f.p.* after 3 a.m.; N.W. w_2 9 a.m.—4 p.m.; E. at 10.23 a.m.
28	*f.p.* in a.m.; C. in p.m.; D. at times after 9 p.m.
29	*f.p.* after 6 a.m.; N.W. w_2 after 7 p.m.
30	*d.*, with B. at times after 2 a.m.: C. after 3 p.m.; N. & N.W. w_2 to 5 p.m.
31	C., with B.C. at times in p.m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日　快晴午前八時頃ヨリ午後四時頃マテ南西風少强

二日　快晴午後九時頃暫時薄陰

三日　快晴

四日　快晴午後三時頃ヨリ同十時頃マテ南風少强

五日　快晴午後三時後時々半晴夜間再ヒ快晴午前七時頃ヨリ午後三時過マテ南西風强

六日　快晴

七日　快晴午後三時過ヨリ同九時頃マテ時々半晴

八日　快晴

九日　快晴

十日　快晴午後三時後陰晴不定

十一日　午前二時過暫時霰降リ同三時後快晴　午前九時九分頃地震ス

十二日　快晴

十三日　快晴

十四日　快晴　午後五時五十分頃地震ス

十五日　快晴

十六日　拂曉來陰

十七日　陰午前四時五十分頃ヨリ同九時過マテ微雨其間暫時雪ヲ交ユ午後五時後時々微雨同八時後快晴

十八日　陰朝霧殊ニ濃厚午後十時頃ヨリ微雨

十九日　午前八時頃宿雨歇ミ爾後陰

二十日　陰午前十一時十五分頃及ヒ午後六時頃暫時微雪シ同十一時後快晴

廿一日　午前九時後薄陰午前北及ヒ北西風少强

廿二日　午前二時頃ヨリ快晴

廿三日　快晴午後二時ヨリ同六時過マテ半晴

廿四日　快晴午前十時頃ヨリ午後六時頃マテ北西風少强

廿五日　快晴午前十一時頃ヨリ午後五時頃マテ北西風少强

廿六日　晴時々半晴

廿七日　午前三時後快晴同九時頃ヨリ午後四時頃マテ北西風少强　午前十時二十三分頃地震ス

廿八日　午前快晴午後漸々陰同九時頃ヨリ時々微雨

廿九日　午前六時後快晴午後七時後北西風少强

三十日　午前二時過ヨリ薄陰時々晴午後三時後陰同五時頃マテ北及ヒ北西風少强

卅一日　陰午後時々半晴

地平磁氣力
HORIZONTAL INTENSITY.

Commenced $6^d\ 2^h\ 55^m$ P. M.
Ended 6 3 55

六日午後二時五十五分ヨリ同三時五十五分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	53 47 0	46 20	46 40				
	W.					2	47 27 0	26 20	26 40
	E.	3	53 47 20	46 40	47 0				
	W.					4	47 27 10	26 30	26 50
	E.	5	53 47 40	47 0	47 20				
平均 Means			53° 47′ 0″ .0				47° 26′ 45″.0		
西 West.	W.					6	47 23 0	22 20	22 40
	E.	7	53 42 0	41 20	41 40				
	W.					8	47 23 40	23 0	23 20
	E.	9	35 42 40	42 0	42 20				
	W.					10	47 23 40	23 0	23 20
平均 Means.			53° 42′ 0″.0				47° 23′ 6″.7		

平均溫度 Mean Temperature $t = 52°.3$ fah
偏針角 Angle of Deflection $u = 3°\ 9'\ 47''.1$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	溫度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	3	42	32.5	51.7	5.8	54.2		
10		43	18.0					
20		44	3.8					
31		44	53.5					
41		45	39.0					
51		46	24.5					
100		50	7.7				7	35.2
110		50	53.0					35.0
120		51	38.1					34.3
131		52	28.5					34.7
141		53	14.0					35.0
151		53	59.5	51.7	26·7	43.0		35.0
平均 Means.				51.7	....		7	34.87

物振差 Mean effect of 90° of Torsion $v = 2.89$
時儀日差 Daily rate $s = 7^s.69$ Losing.

成果 Resulting absolute value X = 6.3283

Commenced $21^d\ 2^h\ 20^m$ P. M.
Ended 21 3 20

二十一日午後二時二十分ヨリ同三時二十分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	301 17 40	17 0	17 20				
	W.					2	294 56 30	56 0	56 15
	E.	3	301 18 0	17 20	17 40				
	W.					4	294 57 0	56 20	56 40
	E.	5	301 18 0	17 20	17 40				
平均 Means.			301° 17′ 33″.3				294° 56′ 27″.5		
西 West.	W.					6	294 55 0	54 20	54 40
	E.	7	301 13 50	13 10	13 30				
	W.					8	294 55 0	54 20	54 40
	E.	9	301 14 0	13 20	13 40				
	W.					10	294 55 0	54 20	54 40
平均 Means.			301° 13′ 35″.0				294° 54′ 40″.0		

平均溫度 Mean Temperature $t = 45°.9$ fah.
偏針角 Angle of Deflection $u = 3°\ 10'\ 0''.2$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	溫度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	3	0	22.1	45.0	0.5	59.9		
10		1	7.8					
20		1	53.5					
31		2	43.0					
41		3	28.6					
51		4	14.3					
100		7	57.3				7	35.2
110		8	42.6					34.8
120		9	28.4					34.9
131		10	18.3					35.3
141		11	3.8					35.2
151		11	49.3	45.8	13.1	47.3		35.0
平均 Means.				45.4	....		7	35.07

物振差 Mean effect of 90° of Torsion $v = 2.39$
時儀日差 Daily rate $s = 63^s.04$ Losing.

成果 Resulting absolute value X = 6.3188

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.		Day.	° ′	Day.	° ′
1	4 9.9	5	4 10.2	9	4 11.4	13	4 12.2	17	4 12.2	21	4 10.9	25	4 9.2	29	4 11.1
2	4 11.0	6	4 9.9	10	4 11.8	14	4 14.5	18	4 11.9	22	4 10.8	26	4 10.1	30	4 9.8
3	4 9.2	7	4 10.5	11	4 12.9	15	4 14 3	19	4 11.3	23	4 9.8	27	4 9.8	31	4 9.3
4	4 8.1	8	4 11.2	12	4 12.7	16	4 12.3	20	4 13.2	24	4 12.7	28	4 11.7		

平均 Mean = 4° 11′.16

磁氣傾差
Magnetic Inclination.

Commenced 6 d 4h 32m P. M.
Ended 6 4 56

六日午後四時三十二分ヨリ同時五十六分ニ至ル

極端A Polarity of Marked end A.								極端B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 35	49 35	49 48	49 47	49 38	49 36	49 12	49 10	49 42	49 42	49 23	49 26	49 52	49 54	49 43	49 44
49 40	49 39	49 46	49 45	49 42	49 40	49 16	49 13	49 49	49 49	49 22	49 26	49 50	49 50	49 42	49 43
49 37.5	49 37.0	49 47.0	49 46.0	49 40.0	49 38.0	49 14.0	49 11.5	49 45.5	49 45.5	49 22 5	49 26.0	49 51.0	49 52.0	49 42.5	49 43.5
49 37.3		49 46.5		49 39.0		49 12.8		49 45.5		49 24.3		49 51.5		49 43.0	
49 41.9				49 25.9				49 34.9				49 47.3			
49 33.9								49 41.1							

成果 Resulting Dip = 49° 37′.5

Commenced 21d 4h 18m P. M.
Ended 21 4 39

廿一日午後四時十八分ヨリ同時三十九分ニ至ル

極端A Polarity of Marked end A.								極端B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 37	49 35	49 40	49 36	49 48	49 45	49 15	49 13	49 35	49 38	49 5	49 8	50 8	50 10	49 25	49 30
49 42	49 41	49 38	49 36	49 46	49 44	49 16	49 13	49 43	49 45	49 5	49 9	50 7	50 9	49 26	49 31
49 39.5	49 38.0	49 39.0	49 36.0	49 47.0	49 44.5	49 15.5	49 13.0	49 39.0	49 41.5	49 5.0	49 8.5	50 7.5	50 9.5	49 25.5	49 30.5
49 38.8		49 37.5		49 45.7		49 14.3		49 40.3		49 6.7		50 8.5		49 28.0	
49 38.2				49 30.0				49 23.5				49 48.3			
49 34.1								49 35.9							

成果 Resulting Dip = 49° 35′.0

天候
WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	...	1	...	...	...	...	...	...	7	0.1	...
2	...	...	...	...	1	...	...	...	...	...	7	1.1	...
3	...	...	...	...	...	...	...	...	...	...	8	0.0	...
4	1	...	...	...	2	...	...	...	...	...	5	0.5	...
5	...	...	...	1	1	...	...	...	...	...	6	1.0	...
6	...	...	...	...	...	...	...	...	...	...	8	0.0	...
7	...	3	...	1	...	...	...	...	...	...	4	0.8	...
8	...	...	...	1	...	...	...	...	...	...	7	0.4	...
9	1	...	...	...	...	...	...	...	...	...	7	0.1	...
10	1	2	1	1	...	2	...	...	...	...	1	3.8	...
11	1	...	4	2	1	...	...	...	...	...	...	2.1	...
12	...	1	...	1	...	...	...	...	...	...	6	0.8	...
13	1	...	...	...	...	1	...	...	...	...	6	0.8	...
14	...	2	...	1	...	...	...	...	...	...	5	0.4	...
15	...	...	...	1	1	...	...	...	...	...	6	0.8	...
16	...	3	1	1	...	3	...	...	...	...	...	8.9	...
17	...	1	3	...	...	...	...	2	...	...	2	7.4	0.04
18	...	4	1	...	...	1	...	1	...	1	...	9.9	...
19	...	...	5	...	...	1	...	2	...	...	...	10.0	0.05
20	...	1	5	...	...	1	...	...	1	...	...	9.1	...
21	...	4	...	2	...	1	...	...	...	...	1	6.1	...
22	...	1	...	1	...	...	...	...	...	...	6	0.6	...
23	...	...	...	2	...	...	...	...	...	...	6	1.3	...
24	...	1	...	...	...	...	...	...	...	...	7	0.1	...
25	...	...	...	...	...	...	...	...	...	...	8	0.0	...
26	...	7	...	...	...	...	...	...	...	...	1	4.9	...
27	1	2	...	...	2	...	...	...	...	...	3	1.6	...
28	2	...	1	1	...	1	...	1	...	...	2	5.3	...
29	...	...	...	...	1	1	...	...	...	...	6	2.3	...
30	1	...	2	...	3	2	...	...	...	...	...	8.5	...
31	...	...	3	4	...	1	...	...	...	...	...	9.5	...
合計 Sums.	9	32	26	21	12	15	...	6	1	1	125	...	0.09
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	3.2	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	北東 N.E. 時數 Number of Hours.	北東 N.E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	南東 S.E. 時數 Number of Hours.	南東 S.E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	南西 S.W. 時數 Number of Hours.	南西 S.W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	北西 N.W. 時數 Number of Hours.	北西 N.W. 速力 Number of Miles.	合計 Total. 時數 Number of Hours.	合計 Total. 速力 Number of Miles.	最强 Strongest 方位 Directions.	最强 Strongest 速力 Miles.
1	...	...	...	...	...	...	...	...	...	2	13.6	17	199.8	5	27.4	...	...	24	240.8	S.W.	20.9
2	...	...	...	1	6.4	2	8.4	1	5.4	3	21.2	5	34.5	2	4.8	10	35.6	24	114.5	S.W.	10.6
3	...	...	...	...	...	...	...	1	3.9	3	11.0	1	2.0	...	...	19	101.0	24	117.9	N.W.	9.3
4	...	9	28.8	...	...	...	...	2	10.5	9	97.3	1	14.7	2	10.2	1	8.9	24	170.4	S.	19.8
5	...	3	22.0	...	...	...	...	...	...	...	...	10	251.0	3	16.4	8	62.7	24	352.1	S.W.	*34.8
6	...	...	...	...	...	...	...	4	27.7	7	42.6	4	27.7	8	23.6	1	2.8	24	124.4	S.W.	13.7
7	...	9	95.6	2	14.9	...	...	...	...	1	12.7	...	...	1	8.0	11	55.2	24	186.4	N.	14.1
8	...	7	72.3	...	...	...	...	11	40.9	...	...	1	1.4	1	4.6	4	13.7	24	132.9	N.	15.4
9	...	3	18.8	...	...	6	34.6	...	...	1	8.7	2	7.5	8	25.6	4	23.6	24	118.8	S.	8.7
10	...	11	103.6	1	5·5	...	...	4	12.6	...	...	...	...	...	...	8	35.2	24	156.9	N.	13.5
11	...	12	39.4	1	4.6	1	3.3	...	...	3	19.1	...	...	...	...	7	21.0	24	87.4	S.	6.8
12	...	11	44.0	4	17.6	1	3.5	3	15.5	5	23.9	...	...	...	...	...	...	24	104.5	S.	9.6
13	...	2	5.8	1	2.6	...	...	8	24.9	...	...	...	...	1	5.1	12	45.4	24	84.1	N.W.	7.9
14	...	15	186.2	...	...	...	...	...	...	...	...	...	...	...	...	9	59.4	24	245.6	N.W.	19.8
15	...	...	...	...	...	...	...	...	...	5	46.2	3	10.9	...	...	16	73.9	24	131.0	N·W.	11.3
16	...	22	116.2	2	8.7	...	...	...	...	...	...	...	...	...	...	...	...	24	124.9	N.	11.0
17	...	24	75.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	75.3	N.	8.7
18	...	6	26.0	2	7.2	1	2.7	4	6.5	...	...	...	...	8	15.7	3	6.9	24	65.0	N.	6.4
19	...	7	53.5	...	...	...	...	...	...	...	...	...	...	...	...	17	99.5	24	153.0	N.E.	10.5
20	...	17	91.9	7	44.6	...	...	...	...	...	...	...	...	..	...	...	...	24	136.5	N.	14.1
21	...	18	133.0	...	...	...	...	...	...	...	...	...	...	...	...	6	73.9	24	206.9	N.	15.8
22	...	23	160.2	...	...	...	...	...	...	...	...	...	...	...	...	1	12.1	24	172.3	N.	13.7
23	...	6	35.9	...	...	...	...	...	...	...	...	...	...	...	...	18	83.5	24	119.4	N.W.	10.5
24	...	...	...	...	...	...	...	...	...	...	...	...	...	6	38.7	18	192.5	24	231.2	N.W.	21.2
25	...	1	9.1	...	...	...	...	...	...	...	...	...	...	10	46.9	13	128.4	24	184.4	N.W.	15.1
26	...	6	41.4	...	...	...	...	9	31.2	...	...	...	...	...	...	9	42.2	24	114.8	N.	10.9
27	...	18	115.8	...	...	...	...	...	...	...	...	...	...	...	...	6	98.4	24	214.2	N.W.	19.9
28	...	10	72.0	...	...	...	...	11	57.8	...	...	...	...	...	...	3	28.1	24	157.9	N.W.	12.5
29	...	10	61.3	...	...	1	2.8	8	34.7	...	...	...	...	...	...	5	69.9	24	168.7	N.W.	16.4
30	...	16	186.6	...	...	..	...	...	...	...	...	...	...	...	...	8	103.4	24	290.0	N.W.	17.8
31	...	12	79.4	2	70.8	1	7.4	9	41.7	...	...	...	...	...	...	...	...	24	149.3	N.E.	11.9
合計 Sums.	...	278	1874.1	23	131.4	13	62.7	75	313.3	39	296.3	44	549.5	55	227.0	217	1477·2	744	4931.5	..	...
極强 Max.	...		...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.W.	34.8

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	45	49	59	44	45	62	56	55
2	47	66	64	47	54	63	71	62
3	69	56	58	48	46	67	66	65
4	69	80	63	56	63	66	68	77
5	84	74	57	38	38	55	62	69
6	65	70	57	60	59	67	80	88
7	75	76	65	48	49	56	62	56
8	62	66	64	53	53	76	74	85
9	82	93	75	42	46	57	69	74
10	72	80	60	50	56	64	56	58
11	69	74	64	53	53	58	66	67
12	60	73	64	48	54	70	81	69
13	79	85	63	52	54	75	62	63
14	75	66	62	41	42	62	62	58
15	58	67	52	41	52	71	80	62
16	76	69	55	55	55	64	70	77
17	77	92	95	81	73	88	90	98
18	98	98	95	84	84	82	80	79
19	84	86	92	80	65	69	72	75
20	75	75	79	70	63	66	85	69
21	59	61	47	43	46	51	54	64
22	60	55	61	42	46	71	53	62
23	97	85	58	44	43	67	89	93
24	63	61	47	37	38	56	53	57
25	50	52	52	39	40	51	62	65
26	69	74	52	50	48	69	71	66
27	72	64	56	41	38	54	62	61
28	59	59	59	48	44	62	65	84
29	72	67	61	63	57	74	51	51
30	46	46	49	41	41	46	50	56
31	56	56	57	52	54	63	68	71
平均 Means.	69	70	63	51	52	65	67	69

水氣張力
ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.086	0.070	0.126	0.123	0.145	0.133	0.101	0.081
2	0.066	0.078	0.126	0.153	0.182	0.174	0.164	0.149
3	0.122	0.106	0.131	0.163	0.182	0.177	0.140	0.108
4	0.115	0.116	0.127	0.179	0.244	0.225	0.228	0.166
5	0.141	0.156	0.229	0.202	0.185	0.166	0.139	0.125
6	0.099	0.096	0.128	0.211	0.228	0.196	0.163	0.168
7	0.137	0.128	0.162	0.204	0.210	0.161	0.155	0.133
8	0.134	0.124	0.139	0.183	0.192	0.190	0.165	0.149
9	0.145	0.217	0.174	0.178	0.204	0.182	0.177	0.171
10	0.159	0.147	0.155	0.170	0.213	0.193	0.128	0.130
11	0.137	0.134	0.152	0.185	0.196	0.149	0.145	0.121
12	0.099	0.103	0.120	0.137	0.170	0.162	0.166	0.108
13	0.105	0.099	0.119	0.169	0.177	0.166	0.123	0.112
14	0.104	0.095	0.124	0.126	0.124	0.141	0.121	0.104
15	0.094	0.085	0.093	0.140	0.175	0.182	0.166	0.142
16	0.156	0.140	0.130	0.157	0.166	0.165	0.158	0.158
17	0.159	0.187	0.203	0.218	0.229	0.275	0.254	0.242
18	0.208	0.212	0.241	0.287	0.297	0.275	0.256	0.226
19	0.226	0.213	0.204	0.209	0.181	0.174	0.170	0.172
20	0.165	0.158	0.163	0.165	0.186	0.176	0.174	0.140
21	0.117	0.116	0.109	0.133	0.139	0.121	0.103	0.108
22	0.086	0.082	0.114	0.116	0.127	0.147	0.088	0.091
23	0.118	0.099	0.107	0.116	0.114	0.145	0.137	0.143
24	0.090	0.086	0.093	0.108	0.111	0.133	0.111	0.107
25	0.084	0.073	0.130	0.152	0.168	0.148	0.140	0.140
26	0.148	0.118	0.127	0.164	0.174	0.173	0.152	0.148
27	0.149	0.114	0.132	0.142	0.140	0.145	0.128	0.106
28	0.106	0.116	0.134	0.158	0.149	0.167	0.188	0.225
29	0.150	0.136	0.150	0.218	0.214	0.204	0.127	0.108
30	0.094	0.094	0.104	0.119	0.126	0.114	0.107	0.109
31	0.108	0.108	0.115	0.129	0.155	0.156	0.166	0.160
平均 Means.	0.126	0.123	0.141	0.165	0.178	0.171	0.153	0.140

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	15.1	10.7	23.8	23.0	26.5	24.7	18.7	13.7
2	9.3	13.2	23.5	28.0	32.2	31.1	29.6	27.4
3	22.9	19.6	24.4	29.5	32.1	31.5	25.9	20 1
4	21.5	21.7	23.6	31.8	39 7	37.5	37.9	29.9
5	25.0	28.5	38.0	34.8	32.6	29.9	25.7	23.4
6	18.2	17.5	23.8	35.9	37.9	34.0	29 5	30.1
7	25.4	23.8	29.4	35.0	35.8	29.2	28.3	24.6
8	24.9	23.1	25.7	32.3	33.5	33 3	29.7	27.3
9	26.6	36.6	31.0	31.6	35.0	32.1	31.5	30.6
10	28.9	27 0	28.3	30.4	36.1	33.6	23.8	24 1
11	25.4	24.9	27.8	32.6	34.1	27.3	26.6	22.7
12	18.3	19.0	22.5	25.4	30.5	29.4	29 9	20.1
13	19.5	18.2	22.2	30.3	31.5	26.8	23.0	20.9
14	19.2	17.4	23.2	23.5	23.2	26.0	22.7	19.3
15	17.1	14.9	16.7	25.9	31.2	32.2	29.9	26 2
16	28.5	25.9	24.1	28.6	29.9	29.7	28.8	28.8
17	28.9	32.9	34.9	36.7	38.0	42.8	40.7	39 5
18	35.5	36.0	39.4	43.9	44.8	42.8	40.9	37.7
19	37.7	36.1	35.0	35.7	32.0	31.0	30.4	30.7
20	29.7	28.7	29.5	29.7	32 7	31.4	31.1	25.9
21	21.9	21.6	20.3	24.6	25.6	22.7	19.1	20.0
22	15.2	14.1	21.2	21.7	23.6	27.0	15.5	16.4
23	22.1	18.2	19.9	21.7	21.3	26.7	25.4	26.3
24	16.2	15.0	16.9	20.0	20.6	24.6	20.7	19.9
25	14.5	11.9	24.1	27.8	30.1	27.2	25.9	25.9
26	27.2	22.1	23.6	29.6	31.1	30.9	27.9	27.2
27	27.4	27.4	24.5	26.1	25.9	26.6	23.9	19 7
28	19.7	19.7	24.9	28.7	27.3	30.0	33.0	37.5
29	27.5	25.1	27.5	36.7	36.3	35.1	23.6	20 0
30	17.1	17.2	19.3	22.2	23.5	21.2	19.8	20.2
31	20.0	20.0	21.5	24.0	28.3	28.4	29.8	29.1
平均 Means.	22.8	22.1	25.5	29.3	31.1	30.3	27.4	25.3

日次 Date.	寒暖計 THERMOMETER. 午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	27.5	26.5	36.0	43 2	46.9	36.3	32.0	26.8
2	25.9	22.2	34.0	46.9	48.0	43.0	38.5	36.7
3	31.4	32.8	37.9	48.8	51.9	41.5	35.5	29.8
4	29.9	26.8	34.9	46.7	52.2	48.4	48.0	36.3
5	29.8	36.0	53.0	60.1	58.5	45.0	37.8	32.0
6	27.9	25.2	37.2	49.7	52.0	44.2	34.8	33.3
7	32.2	30.0	40.5	54.3	55.0	45.8	40.2	38.8
8	36.3	33.2	36.5	49.1	50.0	40.4	37.0	31.0
9	31.0	38.5	38.5	54.3	55.5	46.5	40.9	38.2
10	37.2	32.0	41.5	48.6	51.3	45.0	38.0	37.3
11	34.3	31.7	39.0	49.2	51.0	41.5	37.0	32.0
12	29.8	26.2	33.0	43.3	46.5	38.7	34.7	28.9
13	24.8	22.0	33.2	46.8	47.4	37.1	34.5	31.3
14	30.0	26.9	34.2	46.0	45.2	37 6	34.2	32.0
15	29.1	23.9	32.0	49.0	48.0	41.0	35.3	38.0
16	35.0	35.0	38.8	43.9	45.0	41 0	37.8	35.0
17	35.3	35.0	36.4	42.1	45.9	46.0	43 5	40.0
18	36.0	36.5	40.8	48.5	49.4	48.1	46 8	43.8
19	42.2	40.0	37.2	41.5	43.0	40.5	39.0	38.0
20	37.0	35.5	35.2	59.0	44.8	41.9	35.0	35.0
21	34.4	33.0	38.5	46.0	45.0	39 1	33.5	30.0
22	27.0	27.5	32.7	43.0	43.0	35.6	30.8	27.0
23	24.2	22.0	32.5	42.0	41.8	36.5	28.0	27.8
24	26.3	26.0	34.0	44.0	44.5	38.8	34.7	33.2
25	29.8	26.5	39.7	52.0	53.9	44.0	37.4	36.3
26	36.2	29.0	39.3	47.0	50.0	40 7	36.5	37.6
27	35.5	31.8	38.7	49.0	50.0	42.0	35 6	31.1
28	32.0	34 9	37.7	47.7	48.1	43.0	44.1	42.0
29	35.2	35.0	39.8	48.8	51.0	42.8	36.8	36.0
30	35.0	35.4	36.5	43.6	46.0	40.0	36.0	34.0
31	33.5	33.5	35.0	40.0	44.0	40.0	39.5	37.8
平均 Means.	32.0	30.7	37.2	46.9	48.5	41.7	37.3	34.6

改正晴雨計

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.606	29.624	29.682	29.638	29.643	29.773	29.825	29.837
2	29.854	29.858	29.858	29.789	29.701	29.700	29.745	29.825
3	29.879	39.943	30.053	30.043	30.037	30.080	30.130	30.172
4	30.188	30.209	30.231	30.146	30.073	30.043	29.998	29.920
5	29.864	29.793	29.766	29.626	29.579	29.784	29.961	29.994
6	30.036	30.050	30.084	30.029	29.963	29.953	29.924	29.864
7	29.870	29.901	29.927	29.901	29.876	29.912	29.964	29.942
8	29.963	29.958	30.007	29.946	29.868	29.871	29.889	29.837
9	29.779	29.727	29.727	29.682	29.650	29.680	29.716	29.736
10	29.760	29.758	29.806	29.791	29.777	29.828	29.882	29.872
11	29.879	29.869	29.897	29.862	29.829	29.858	29.870	29.860
12	29.858	29.879	29.931	29.889	29.866	29.908	29.939	29.937
13	29.953	29.965	29.977	29.932	29.895	29.896	29.909	29.934
14	29.926	29.957	29.995	29.971	29.969	30.023	30.090	30.107
15	30.089	30.126	30.195	30.142	30.094	30.100	30.131	30.151
16	30.164	30.197	30.248	30.182	30.154	30.153	30.114	30.043
17	29.970	29.930	29.900	29.801	29.750	29.873	29.842	29.883
18	29.947	29.964	30.049	30.036	30.022	30.061	30.104	30.111
19	30.075	30.164	30.174	30.142	30.112	30.126	30.113	30.054
20	30.111	29.995	29.995	29.925	29.889	29.912	29.931	29.943
21	29.946	29.950	29.993	29.944	29.942	29.961	29.990	29.982
22	29.985	29.994	30.047	29.983	29.964	30.010	30.046	30.019
23	30.006	30.010	30.038	29.976	29.935	29.939	29.945	29.950
24	29.943	29.958	30.007	29.978	29.950	29.979	30.023	30.031
25	30.031	30.050	30.075	30.037	30.032	30.078	30.119	30.137
26	30.137	30.148	30.171	30.127	30.093	30.078	30.082	30.087
27	30.090	30.113	30.184	30.144	30.120	30.162	30.186	30.201
28	30.231	30.241	30.259	30.233	30.183	30.183	30.152	30.113
29	30.037	30.005	29.997	29.865	29.834	29.787	29.841	29.904
30	29.971	29.952	30.003	29.984	29.958	30.007	30.008	30.011
31	30.010	30.005	30.024	29.986	29.929	29.933	29.903	29.883
平均 Means.	29.973	29.977	30.010	29.959	29.925	29.956	29.980	29.979

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	收正晴雨計 Barometer. Reduced to 32° F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暖計 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點溫度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日射熱 高極 Vacuum solar radiation Max.	日射熱 高極 Solar radiation Max.	地射熱 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.704	29.837	29.606	34.4	47.7	25.6	19.5	0.108	52	110.0	64.9	13.7
2	29.791	29.858	29.700	36.9	50.5	*19.5	24.3	0.137	59	111.7	69.0	11.0
3	30.042	30.172	29.879	38.7	52.4	28.8	25.8	0.141	59	114.5	73.0	16.2
4	30.101	30.231	29.920	40.4	53.0	24.8	30.5	0.175	68	109.0	68.0	15.0
5	29.796	29.994	*29.579	44.0	*61.2	29.0	29.9	0.168	60	108.5	*76.0	15.0
6	29.988	30.084	29.864	38.0	52.5	23.9	23.4	0.161	68	112.0	70.6	12.4
7	29.912	29.964	29.870	42.1	55.2	29.2	28.9	0.161	61	113 5	74.5	18.2
8	29.917	30.007	29.837	39.2	51.9	28.8	28.7	0.160	67	115 5	73.0	16.0
9	29.712	29.779	29.650	42.9	57.1	28 8	31.9	0 181	67	117.0	*76.0	15.5
10	29.809	29.882	29.758	41.4	53.3	30.0	29.0	0 162	62	112 5	73.0	16.5
11	29.866	29.897	29.829	39.5	52.5	29 9	27.7	0.152	63	114.5	72.0	15.2
12	29.901	29.939	29.858	35.1	48.3	25.0	24.4	0.133	65	109.0	68.1	13.8
13	29.933	29.977	29.895	34.6	49.2	20.1	21 4	0 134	67	107.8	69.3	9.5
14	30.005	30.107	29.926	35.8	46.9	24.7	21.8	0.117	69	108.7	63.0	11.3
15	30.129	30.195	30.089	37.0	50.8	22.5	24.3	0.135	60	116.0	72.5	9.5
16	30.157	30.248	30.043	38.9	45.7	33.8	28.0	0.154	65	92.1	65 5	22.0
17	29.869	29.970	29.750	40.5	46.0	34.0	36.8	0.221	87	63.2	49.5	23.2
18	30.037	30.111	29.947	43.7	55.0	35.3	40.1	0.250	88	112.5	75.0	24.5
19	30.120	30.174	30.054	40.2	44.2	36.2	33.6	0.194	78	83 2	62.2	30.0
20	29.963	30.111	29.889	37.9	45.5	34.2	29.8	0.166	73	105.3	65.8	24.4
21	29.964	29.993	29.942	37.4	46.0	28.6	22.0	0.118	53	112.0	71.9	15.1
22	30.006	30.047	29.664	33.3	45.5	24.5	19.3	0.106	56	110.5	66 5	11.5
23	29.975	30.038	29.935	31.9	45.3	20.9	22 7	0.122	72	110.5	67.6	* 8.5
24	29.984	30.031	29.943	35.2	45.7	23 7	19.2	0.105	52	108.6	62.5	10.7
25	30.070	30.137	30.031	40.0	53.9	24.1	23.4	0.129	51	115.2	72.8	10.5
26	30.115	30.171	30.078	39.5	50.5	28.0	27.5	0.151	62	*119.3	*76.0	15.0
27	30.150	30.201	30.090	39·2	50.7	29.0	24.4	0.132	56	115.0	69.2	14.4
28	30.199	*30.259	30.113	41.2	51·3	28.2	27.9	0.156	60	113 2	72.8	13.9
29	29.909	30.037	29.787	41.1	51.7	31.5	29.0	0.163	62	114.9	73.0	19.0
30	29.987	30.011	29.952	38.3	46.0	33.0	20.1	0.108	47	97.0	66.0	21.2
31	29.959	30.024	29.883	37.9	44.9	32.2	25.1	0.137	60	104.0	66 7	24.5
平均 Means.	29.970	...	...	38.6	...	...	26.7	0.150	63	...	...	...
至極 Max. & Min.	...	30.259	29.579	...	61.2	19.5	...	...	...	119.3	76.0	8.5

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニフアイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁竿中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁竿ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Beckley's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizonta intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer. *

* The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection = 1. 3 feet.

The angular value of one scale division of the vibration magnet = 2′.37.

NOTES.

The Barometer readings are reduced to freezing point (32° F.) and sea level.

The [illegible] Humidity and Elastic Force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and [illegible] of Wind are measured by Robinson's anemometer.

The numbers under the headings of Rain, Snow, [illegible] and the Kinds of Cloud (C. S. N. [illegible]) denote how many, out of eight observations taken [illegible] a day, [illegible] of them.

The [illegible] of the [illegible] after a [illegible] of the [illegible] by 0, and a total [illegible] by 10.

The amount of Rain and Snow are measured at 9 h. [illegible]

The Magnetic declination is observed at 7 a.m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Lamont's Magnetometer.

[illegible]

氣象及磁氣月報

東京

海軍水路部觀象臺

明治二十一年一月

MONTHLY REPORT

OF THE

METEOROLOGICAL AND MAGNETICAL OBSERVATIONS,

DURING

JANUARY, 1888,

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NAVAL OBSERVATORY,

IN THE

HYDROGRAPHIC OFFICE.

TOKIO.